

Work Order ID 71115

Page 1

Thursday, June 23, 2011 7:42:42 AM

Item ID: D135-751-011

Accept



Setup Start



Revision ID:

Stop



Item Name: Skidtube Installation

Start Date: 6/23/2011 Start Qty: 1.00



Cust Item ID:

Required Date: 6/30/2011 Req'd Qty: 1.00

Customer:

Reference:

Run Start



Approvals:

Process Plan: *W*

Date:

Tooling:

Date:

Stop



QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

D3492

C

D3507

Rev C

100

0.00



DC

DOCUMENT CONTROL

0.00

Memo

Document Control

Photocopy bluefile & type labels per PPP D135-751-011

CHG001

*Sillocb7**AJ Cor CL 11-6-27***B71115**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120

0.00



Skidtubes

Skidtubes

Memo

0.00

Skidtubes

1-Cut Aft end as per dwg D3507

2-Deburr ends

3-Drill Aft & Fwd Cap holes using DT8678 & DT8901

4-Locate DT8870 & Drill Ground wire hole on top of Tube.

6-Locate DT8870 with #30 cleco in Ground wire hole ,then Pilot Drill all X-Bolt holes using #30" drill.****DO NOT OPEN AFT CAP HOLES****

7-Open crossbolt holes to 0.3125" (3 per side). Drill pilot holes for wearplates using Dt8868,Use DT8892 FOR REAR WEARPLATE HOLES.

8-Open six rear wearplate holes using DT8892.Open holes to 0.297"

9-Open Aft & Fwd Cap holes using .208" drill.

10-Bore out aft end of tube as per Dwg D3507 & Detail "B".

11-Open ground wire hole .297" section E-E

12- Section G-G holes must be laid out manually, open to #30.

13-Deburr holes.

11-6-23

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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140 QC5- Inspect part completeness to step on W/O

0.00

QC

Memo

0.00

Quality Control

150

Chemical Conversion Coat per QSI005 4.1

0.00

HandFinish

Memo

0.00

Hand Finishing

160

QC3- Inspect Part Finish

0.00

QC

Memo

0.00

Quality Control

B 11/06/23

BR 11/06/23

W/O:		WORK ORDER CHANGES					
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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

170

0.00



Skidtubes

0.00

Skidtubes

Memo

1-Open X-Bolt holes to .375"(2Places) & .500"(2Places) as per Dwg D3507.
and Detail "F"

2-Counter Sink X-BOLT holes as per Dwg D3507

3-Deburr and blow out chips from inside of tube.

4-Bond web as per Dwg D3507 & QSI 015

A/R 241 Sike Flex Batch: M116945

Exp Date: 12/01/15

start time: 4:00

end time: 11/06/24

OK 11/06/23
8:00

5-Weld x-bolt (D3504-1/-3) spacers as per Dwg D3507 and Detail C-C & D-D.

A/R AL ROD Batch: M112860

BE 11/06/24

6-Grind welds flush

7-Drill Rivet Holes as per Dwg D3507 Using Dt8871A&B

BB 11/06/24

8-Deburr Rivet holes.

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

180

QC10- Inspect visual per QSI004- ground welds

0.00



QC

Memo

0.00

Quality Control

8/16/24

FD

190

Skidtubes

0.00



Skidtubes

Memo

0.00

Skidtubes

1-Rivet D3506-1/-3 as per Dwg D3507.

X1

BB 4/06/24

200

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

8/16/24

FD

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Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start



Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

210 Pressure Wash per QSI005 4.3

0.00



HandFinish

Memo

0.00

Hand Finishing

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch.

IX ~~Ø~~ M-L 4/06/25

220 White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00



Powdercoat

Memo

0.00

Powder Coating

START TIME: 8-20

OVEN TEMPERATURE: 320

FINISH TIME: 8-50

OF

IX ~~Ø~~ M-L 11/06/25

230 QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

SAD 11-06-25 (1)

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Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

260

0.00



HandFinishing

HandFinish

Memo

0.00

Hand Finishing

1- Install Wearplate & Ground Wire inserts as per Dwg D3507.

1-Inspect for Foreign objects

2-Install Fwd & Aft caps as per Dwg D3507 And Detail "A" & "B"

A/R 241 Sika Flex Batch: _____

Exp Date: _____

M 117516

3-Install Wearplates as per Dwg D3507,

Note:Install (1) Bolt and (1) washer on Ground Wire insert on top of tube

Do not Install Scews where indicated on Dwg(Note #6)

A/R 241 Sika Flex Batch: _____

Exp Date: _____

M 117516

4-assemble o'ring to plug as per dwg D3492 and apply o'ring lube

A/R 55-o'ring lube batch: _____

M 114189

5- Wing Walk as per Dwg D3507 and QSI 005 4.4

Batch: _____

M 117863

IX ✓ M 11/06/25

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Stop



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Customer:

Reference:

Run Start



Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

**Insp.
Stamp**

0.00.



Memo

0.00

Quality Control

0.00



Memo

0.00

Packaging

0.00



Memo

0.00

Quality Control

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Required Date: 6/30/2011 Req'd Qty: 1.00



Customer:

Reference:

Run Start



Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Stop



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
300		0.00							
	Packaging								
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D135-751-011								
	Location: _____								
	PPP Rev: _____								
310		0.00							
	QC21- Final Inspection - Work Order Release								
QC	Memo	0.00							
Quality Control									

64/8/27(1)

11/6/27

ME

11-06-27

Picklist Print

Thursday, June 23, 2011 7:42:37 AM

Page 1

Work Order ID: 71115

Parent Item: D135-751-011

Parent Item Name: Skidtube Installation



Start Date: 6/23/2011

Required Date: 6/30/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A 06-06-21 New Issue JLM
 IPP Rev:B 06-12-18 As per Rev B JLM
 IPP Rev:C 07-12-11 ECN 1036 as per revB DD
 IPP Rev D 08.11.04 Added DT9431 to sequence 5 EC verified DD
 IPP Rev E 10.02.22 per pAR 09-043 EC verified by: DD IPP Rev:F
 10.06.09 remove seq110 DD verf:EC IPP Rev G 10.09.17
 added D3507-1-bent EC verified by:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

ALS4-1032-225		Purchased	No			260	Each	731.0000	1	1			
<div style="display: flex; justify-content: space-between;"> <div> Insert </div> <div> <u>Location</u> ST282 110768 117717 ✓ </div> <div> <u>Loc Qty</u> 731 213 518 </div> <div> <u>Loc Code</u> </div> <div> m-l 11/06/25 </div> </div>													

ALS7-1032-130		Purchased	No				Each	1,523.000		38			
<div style="display: flex; justify-content: space-between;"> <div> Insert </div> <div> <u>Location</u> ST282 117717 ✓ </div> <div> <u>Loc Qty</u> 1523 1523 </div> <div> <u>Loc Code</u> </div> <div> 1X m-l 11/06/25 </div> </div>													

AN3C4A		Purchased	No			260	Each	2,061.000	31	31			
<div style="display: flex; justify-content: space-between;"> <div> BOLT </div> <div> <u>Location</u> ST350 117094 117313 117688 117795 117872 118012 </div> <div> <u>Loc Qty</u> 2061 67 2 800 500 192 500 </div> <div> <u>Loc Code</u> </div> <div> 38X m-l 11/06/25 </div> </div>													

M 11 8 11 2

31X

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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Page 2

Work Order ID: 71115

Parent Item: D135-751-011

Parent Item Name: Skidtube Installation

Start Date: 6/23/2011

Required Date: 6/30/2011

Start Qty: 1.00

Required Qty: 1.00

AN3C4A

Purchased

No

280

Each

2,061.000

8

8



BOLT

Location

Loc Qty

Loc Code

ST350

2061

117094

67

117313

2

117688

800

117795

500

117872

192

118012

500

~~M-L 11/06/25~~
8X

M-L 11/06/25 (2/4/27)

AN3C5A

Purchased

No

260

Each

1,409.000

2

2



Bolt

Location

Loc Qty

Loc Code

FP-A

7

115835

7

ST350

1402

116419

28

116549

54

117343

500

117508

20

117764

300

117872

500

M-L 11/06/25

2X

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Parent Item Name: Skidtube Installation

Start Date: 6/23/2011

Required Date: 6/30/2011

Start Qty: 1.00

Required Qty: 1.00

AN526C1032R10 Purchased No 260 Each 247.0000 2 2
Screw

Location	Loc Qty	Loc Code
FP-B	107	
108062 ✓	107	
ST327	100	
114494	100	
ST328	40	
110049	40	

m-l 11/06/25

2X

AN960C10L NAS1149C0332 Purchased No 260 Each 0.0000 33 33
washer R

118078

33x m-l 11/06/25

AN960C10L NAS1149C0332 Purchased No 280 Each 0.0000 8 8
washer R

~~118078~~

~~8x m-l 11/06/25~~

D2965 Manufactured No 260 Each 28.0000 1 1
Cap, 105 Skidtube

Location	Loc Qty	Loc Code
FP006	28	
52057 ✓	28	

m-l 11/06/25

1X

D2965-3 Manufactured No 260 Each 4.0000 1 1
Cap

Location	Loc Qty	Loc Code
FP005	4	
50560 ✓	2	
52282	2	

~~B 52057~~

m-l 11/06/25

1X

2X

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Parent Item Name: Skidtube Installation

Start Date: 6/23/2011

Required Date: 6/30/2011

Start Qty: 1.00

Required Qty: 1.00

D3492-1 Manufactured No

260 Each

72.0000

4 4



Plug

Location	Loc Qty	Loc Code
FP	72	
69531	8	
69819	64	

M-L 11/06/25
4X

D3492-3 Manufactured No

260 Each

60.0000

4 4



Plug

Location	Loc Qty	Loc Code
FP	60	
69822	60	

M-L 11/06/25
4X

D3492-7 Manufactured No

260 Each

0.0000

2 2



Plug

Location	Loc Qty	Loc Code
FP	170	
53742		

M-L 11/06/25
2X
BE 11/06/25

D3504-1 Manufactured No

170 Each

6.0000

2 2



Crossbolt Spacer

Location	Loc Qty	Loc Code
LG001	6	
53742	6	

2

D3504-3 Manufactured No

170 Each

26.0000

1 1



Crossbolt Spacer

Location	Loc Qty	Loc Code
LG001	26	
31232	6	
53743	20	

1

BE 11/06/25

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Start Date: 6/23/2011

Required Date: 6/30/2011

Start Qty: 1.00

Required Qty: 1.00

D3504-5 Manufactured No

170 Each

8.0000

2 2



Crossbolt Spacer



BE 4/06/24

Location

Loc Qty

Loc Code

LG001

8

53744

8

2

D3505-1 Manufactured No

170 Each

0.0000

1 1



Web



(X1)

BB

BB

BB

11/06/23

D3506-1 Manufactured No

190 Each

47.0000

4 4



Doubler

Location

Loc Qty

Loc Code

ST063

47

51789

47

(4)

BB

11/06/24

D3506-3 Manufactured No

190 Each

87.0000

2 2



(2)

BB

11/06/24

Doubler

Location

Loc Qty

Loc Code

ST063

87

51790

87

D3507-1-BENT Manufactured No

120 Each

3.0000

1 1



Skidtube Assembly EC135

Location

Loc Qty

Loc Code

LG

3

62291

1

62292

1

67132

1

(1)

BB

11/6/23

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Parent Item Name: Skidtube Installation

Start Date: 6/23/2011

Required Date: 6/30/2011

Start Qty: 1.00

Required Qty: 1.00

D3508-1 Manufactured No 260 Each 13.0000 1
Wearplate

Location	Loc Qty	Loc Code
FP016	13	
51261	1	
61020	12	

m-l 11/06/25

D3508-3 Manufactured No 260 Each 6.0000 1
Wearplate

Location	Loc Qty	Loc Code
FP021	6	
38527	1	
67489	5	

m-l 11/06/25

D3508-5 Manufactured No 260 Each 7.0000 1
Wearplate

Location	Loc Qty	Loc Code
FP021	7	
51388	1	
67160	6	

m-l 11/06/25

D3508-7 Manufactured No 260 Each 12.0000 1
Wearplate

Location	Loc Qty	Loc Code
FP021	12	
67159	6	
67739	6	

m-l 11/06/25

S D3512-1 Manufactured No 280 Each 0.0000 2
Wearplate

25803 10/4/21 (1)

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Parent Item Name: Skidtube Installation

Start Date: 6/23/2011

Required Date: 6/30/2011

Start Qty: 1.00

Required Qty: 1.00

D3558-1

Manufactured No

260

Each

13.0000

1

1



Gasket



m-l 11/06/25

Location

Loc Qty

Loc Code

FP014

13

42533

1

50925

12

D3558-3

Manufactured No

260

Each

9.0000

1

1



Gasket



m-l 11/06/25

Location

Loc Qty

Loc Code

FP014

9

67486

9

D3558-5

Manufactured No

260

Each

15.0000

1

1



Gasket



m-l 11/06/25

Location

Loc Qty

Loc Code

FP014

15

43244

1

50926

2

67485

12

D3558-7

Manufactured No

260

Each

17.0000

1

1



Gasket



m-l 11/06/25

Location

Loc Qty

Loc Code

FP014

17

67162

17

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Shop Packet Print

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Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Page 8

Work Order ID: 71115

Parent Item: D135-751-011

Parent Item Name: Skidtube Installation

Start Date: 6/23/2011

Required Date: 6/30/2011

Start Qty: 1.00

Required Qty: 1.00

MS20601-AD4W3 Purchased No
Rivet



190 Each 2,846.000 12



12
12

11/06/24

Location

Loc Qty

Loc Code

ST321

2846

114538

2846

NAS1611-007 Purchased No
O-RING



260 Each 296.0000 2



2
M-L 11/06/25

Location

Loc Qty

Loc Code

FP-A

296

103697

296

NAS1611-010 Purchased No
O-RING



260 Each 218.0000 4



2x
4
M-L 11/06/25

Location

Loc Qty

Loc Code

FP

96

117460

16

118077

80

FP-A

122

110915

99

115589

23

NAS1611-013 Purchased No
O-RING



260 Each 196.0000 4



4x
4
M-L 11/06/25

Location

Loc Qty

Loc Code

FP

191

117291

51

117887

140

FP-A

5

116582

5

4x

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Page 8

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

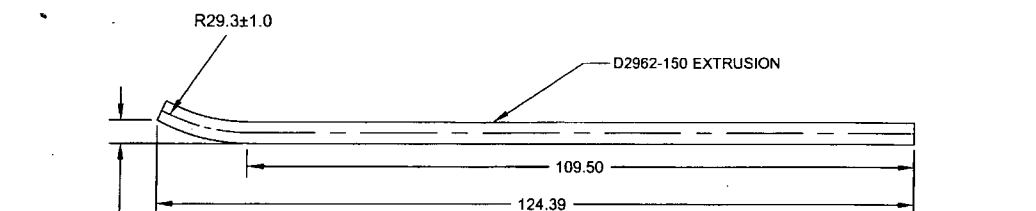
NOTE: Date & initial all entries

Qty	Part Number	Description
X	D3507-041	SKIDTUBE ASSEMBLY
1	D2962-150	EXTRUSION
1	D2965	CAP
1	D2965-3	CAP
4	D3492-041	PLUG ASSEMBLY
4	D3492-043	PLUG ASSEMBLY
2	D3492-047	PLUG ASSEMBLY
2	D3504-1	CROSS BOLT SPACER
1	D3504-3	CROSS BOLT SPACER
2	D3504-5	CROSS BOLT SPACER
1	D3505-1	WEB
4	D3506-1	DOUBLER
2	D3506-3	DOUBLER
1	D3508-1	WEARPLATE
1	D3508-3	WEARPLATE
1	D3508-5	WEARPLATE
1	D3508-7	WEARPLATE
1	D3558-1	GASKET
1	D3558-3	GASKET
1	D3558-5	GASKET
1	D3558-7	GASKET
38	AELS-1032-130	INSERT
1	AELS-1032-225	INSERT
31	AN3C4A	BOLT
2	AN3C6A	BOLT
2	AN526C1032-10	SCREW
33	AN960C10L	WASHER
12	MS20601A04W3	RIVET

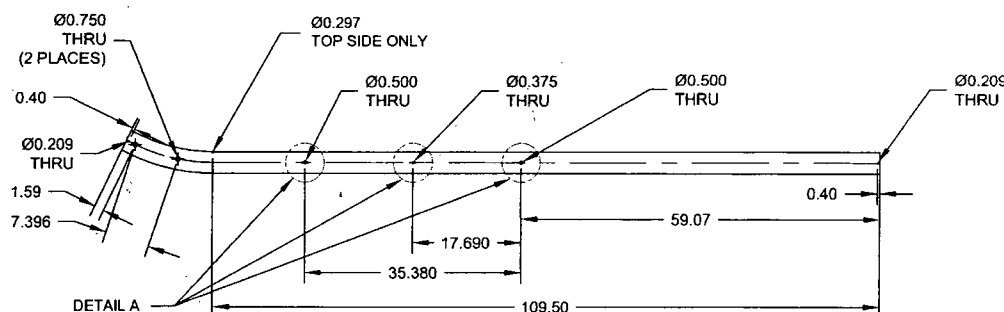
GENERAL NOTES:

- 1) FINISH:
CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIOR TO INSERTING D3505-1 WEB. POWDER COAT ASSEMBLY GLOSS WHITE (REF 4.3.5.1) PER DART QSI 005 4.3. ANTI-SKID PAINT AS INDICATED TO 1.00 ABOVE CENTER LINE PER DART QSI 005 4.4
- 2) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) DIMENSIONS: INCHES UNLESS OTHERWISE NOTED
- 4) WELDING TO BE DONE PER DART QSI 004
- 5) INSERT D3505-1 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241/-291 ADHESIVE PER DART QSI 015 AFTER BENDING
- 6) USE DART DRILL TEMPLATE DT8868 TO LOCATE AND DRILL Ø0.297 HOLES (38 PLACES) FOR WEARSHOE INSERTS. INSTALL AELS-1032-130 PER SECTION C-C (38 PLACES) AFTER FINISH. SEAL WEARPLATE BOLTS WITH SIKAFLEX-241/-291.
- 7) DO NOT INSTALL AN3C4A BOLTS AND AN960C10L WASHERS IN INDICATED LOCATIONS

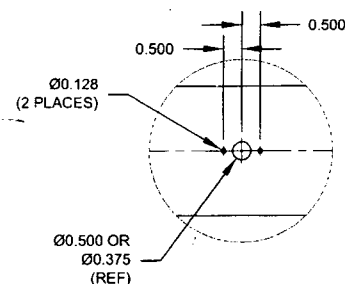
C	ADD D3504-5, FOR SKID GEAR DEFLECTOR; CHANGE FWD CAP BOLT TO AN526C1032-10 SCREW	DC	07.09.19
B	ADD GASKET, CHANGE HARDWARE MAT'L	PH	06.11.01
A	NEW ISSUE	PH	06.04.21
REV.	DESCRIPTION	BY	DATE
DESIGN	PH	DART AEROSPACE USA, INC PORT HADLOCK, WA	
DRAWN	JTC		
CHECKED	BA	DRAWING NO.	REV. C
MFG. APPR.	EC	D3507	SHEET 1 OF 2
APPROVED	JP	TITLE	SCALE
DE APPR.	JP	EC 135 SKIDTUBE	NTS
DATE	07.09.19	COPYRIGHT © 2005 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE, OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC	



D3507-1 BENDING/CUTTING DETAIL

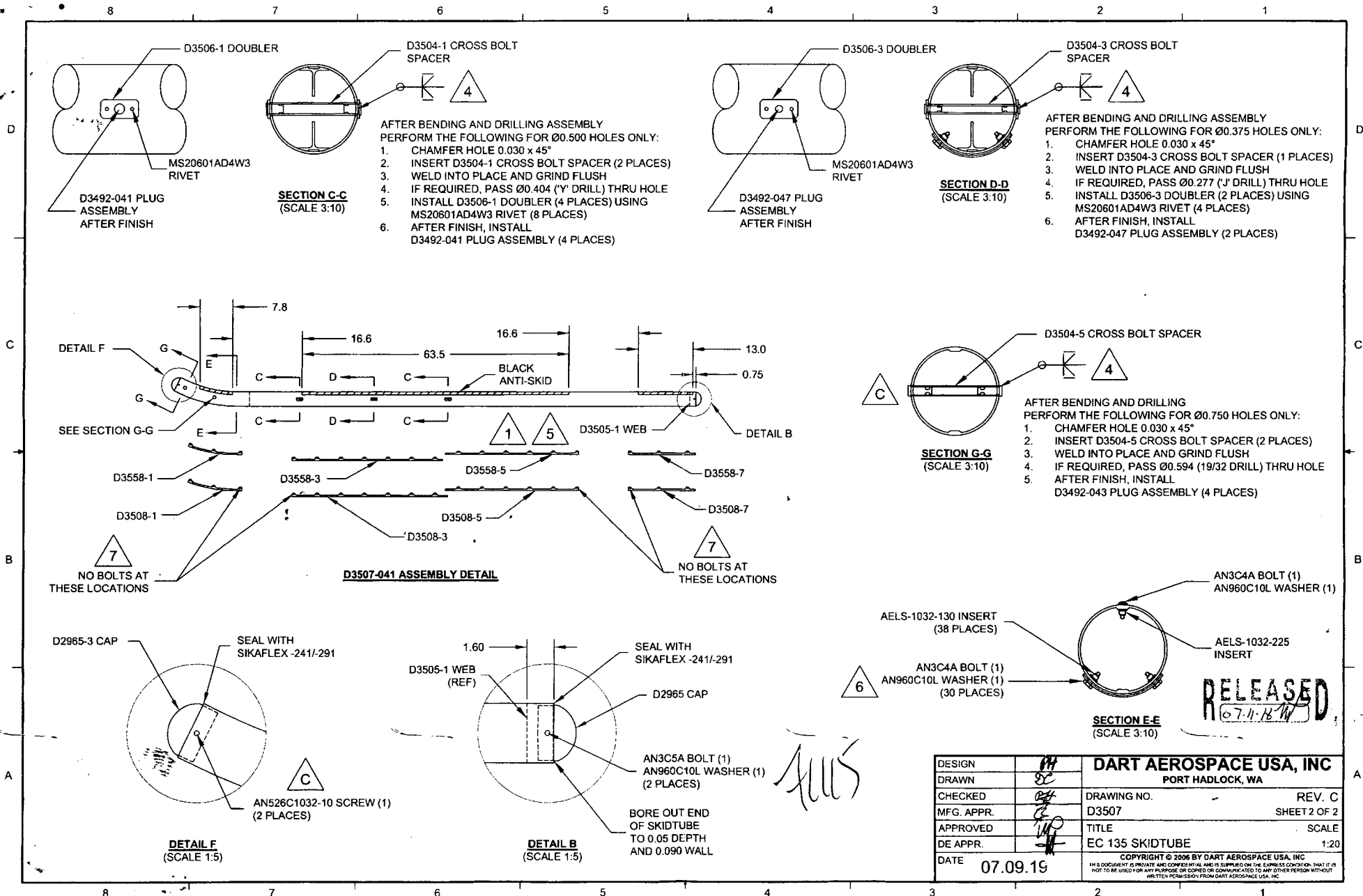


D3507-1 DRILLING DETAIL



DETAIL A
(TYP. 6 PLACES)
SCALE 3:10

no flus



NO. 257

AWS D17.1.2001
QUALIFICATION TEST RECORD

Name: Barclay Elliot
Job number: B666P
Part number: D135-751-011
Description: 135
Welding Process: Tig ☒ Mig ☐
Base material: Aluminum
Current: AC ☐ DC ☐

TEST REQUIREMENTS AND RESULTS

Visual: pass ☒ fail ☐
Penetration: pass ☒ fail ☐

UNACCEPTABLE

Cracks: pass ☒ fail ☐
Undercut: pass ☒ fail ☐
Pin holes: pass ☒ fail ☐
Overlap (cold lap): pass ☒ fail ☐
Porosity (surface): pass ☒ fail ☐
Coloration: pass ☒ fail ☐

Qualifier Pat. Lewis Date of Test Coupon 11-06-22

Welder Barclay Elliot Date of Test Coupon 11-06-22

The above named individual is qualified in accordance with AWS D17.1.2001 to weld